DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-017423 Address: 333 Burma Road **Date Inspected:** 15-Oct-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Lv Li Qing No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component:** OBG

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance(QA) Inspector Mr. Shrikant Utekar was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. The QA Inspector observed and/or found the following:

ULTRASONIC TESTING

BAY #10

This QA Inspector performed Ultrasonic Testing (UT) of North Tower Lift 5 grillage welds D-E corner weld NSD1-TL5-3B-F-2, 36. UT was performed on the compression area as in accordance with AWS D1.5-2002, section 6, table 6.4. No any rejectable indications were observed at the time of testing.

OUTSIDE YARD

This QA Inspector performed Ultrasonic Testing (UT) of East Tower Lift 5 grillage welds D-E corner weld ESD1-TL5-2BF-23, 41. UT was performed on the compression as in accordance with AWS D1.5-2002, section 6, table 6.4. No any rejectable indications were observed at the time of testing.

This QA Inspector performed Ultrasonic Testing (UT) of South Tower Lift 5 grillage welds D-E corner weld SSD1-TL5-1B-F-22, 53. UT was performed on the compression area as in accordance with AWS D1.5-2002, section 6, table 6.4. No any rejectable indications were observed at the time of testing.

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

This QA Inspector randomly observed the following work in progress.

BAY #14

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 066203 performing the Flux Cored Arc Welding process on weld 109 located at PCMK CA3013B. ZPMC QC Mr. Lv Li Qing was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 066041 performing the Flux Cored Arc Welding process on weld 014 located at PCMK CA3013B. ZPMC QC Mr. Lv Li Qing was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 044824 performing the Flux Cored Arc Welding process on weld 033 located at PCMK AP3009-001. ZPMC QC Mr. Lv Li Qing was monitoring this welding operation. The welding variables recorded by QA appeared to comply with WPS-B-T-2132-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 044801 performing the Flux Cored Arc Welding process on weld 036 located at PCMK AP3010-001. ZPMC QC Mr. Lv Li Qing was monitoring this welding operation. The welding variables recorded by QA appeared to comply with WPS-B-T-2132-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 044774 performing the Flux Cored Arc Welding process on weld 071 located at PCMK VP3007-001. ZPMC QC Mr. Zhong Guo Hui was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 067079 performing the Flux Cored Arc Welding process on weld 029 located at PCMK VP3007-001. ZPMC QC Mr. Zhong Guo Hui was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-2232-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 202122 performing the Flux Cored Arc Welding process on weld 045 located at PCMK SA3168-001. ZPMC QC Mr. Wang Jie was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-3132.

This Quality Assurance (QA) Inspector observed fit-up was in progress for floor beam FB3207, FB3211 and FB3216.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)





Summary of Conversations:

No significant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, +(86) 1500 042 2372, who represents the Office of Structural Materials for your project.

Inspected By:	Utekar,Shrikant	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer